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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/911,356	07/23/2001	Ioannis Pallikaris	10781/9	3390
7	590 08/27/2003			
VINCENT J. GNOFFO			EXAMINER	
BRINKS, HOFER, GILSON & LIONE 455 N. CITYFRONT			NGUYEN, VI X	
NBC TOWER, SUITE 3600 CHICAGO, IL 60611			ART UNIT	PAPER NUMBER
			3731	
			DATE MAILED: 08/27/2003	12

Please find below and/or attached an Office communication concerning this application or proceeding.

		\bigwedge
	Application No.	Applicant(s)
•	09/911,356	PALLIKARIS ET AL.
Office Action Summary	Examiner	Art Unit
	Victor X Nguyen	3731
The MAILING DATE of this communication Period for Reply	appears on the cover sheet	with the correspondence address
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st - Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b). Status	NN. R 1.136(a). In no event, however, may reply within the statutory minimum of riod will apply and will expire SIX (6) N atute. cause the application to become	y a reply be timely filed thirty (30) days will be considered timely. MONTHS from the mailing date of this communication. BABANDONED (35 U.S.C. § 133).
1) Responsive to communication(s) filed on	02 June 2003 .	
<u> </u>	This action is non-final.	
Since this application is in condition for all closed in accordance with the practice unopposition of Claims	lowance except for formal r der <i>Ex parte</i> Q <i>uayle</i> , 1935	matters, prosecution as to the merits is C.D. 11, 453 O.G. 213.
4)⊠ Claim(s) <u>1-23</u> is/are pending in the applica	ation.	
4a) Of the above claim(s) is/are with	drawn from consideration.	
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-15,24 and 25</u> is/are rejected.		
7)⊠ Claim(s) <u>16-23</u> is/are objected to.		
8) Claim(s) are subject to restriction ar	nd/or election requirement.	·
Application Papers		
9)☐ The specification is objected to by the Exan		
10)☐ The drawing(s) filed on is/are: a)☐ a	eccepted or b) \square objected to $\mathfrak k$	by the Examiner.
Applicant may not request that any objection t		
11)☐ The proposed drawing correction filed on _	is: a)□ approved b)□	disapproved by the Examiner.
If approved, corrected drawings are required i		
12)☐ The oath or declaration is objected to by the	e Examiner.	
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for for	reign priority under 35 U.S.	C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:		
 Certified copies of the priority document 	nents have been received.	
2. Certified copies of the priority docum	nents have been received i	n Application No
 3. Copies of the certified copies of the application from the Internationa * See the attached detailed Office action for a 	il Bureau (PCT Rule 17.2(a)).
14) Acknowledgment is made of a claim for dom		
a) The translation of the foreign language		
15) Acknowledgment is made of a claim for don		
Attachment(s)		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No.	s) 5) Notice	iew Summary (PTO-413) Paper No(s) e of Informal Patent Application (PTO-152)

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-8,14-15 and 24-25 are rejected under 35 U.S.C. 102 (e) as being anticipated by Amano (U.S. 6,506,198).

Regarding claims 1 and 3, Amano shows in figures 1, 2, a mechanical device (1) includes a separator (21a), wherein the device can preserve the separated epithelial layer without rupturing the disk and without substantial epithelial cell loss; The intended use "wherein the device is suitable for separating the epithelial layer from the cornea stroma" is not given patentable weight because only the structure of the separator device is being claimed; and wherein the separator (21a) is not sharp enough to excise corneal tissue.

Regarding claims 2,4, 14-15 and 24-25, Amano shows in figures 1, 2, wherein a ring (31) seats on the eye, wherein a separator support (21a) fits in the groove (fig. 3, items 22a, 23a) and an oscillation device (12) provides motion and vibration to the separator (21a); wherein the separator (21a) is not sharp enough to excise corneal tissue.

Regarding claims 5 and 6, Amano shows in figures 1, 2 and col. 7 lines 4-21, wherein a travel of the separator (21a) is controlled to produce an epithelial disk hinged to the border of the separation.

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Regarding claims 7 and 8, Amano shows in figures 1, 2, wherein the ring (31) includes a circumferential groove (fig. 3 items 22a, 23a) on the side of the eye and suction (3) is applied to the circumferential groove to ensure stable mounting of the ring (31).

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 9-12 are rejected under 35 U.S.C 103 (a) as being unpatentable over Amano (6,506,198) in view of Bair et al (6,126,668).

Regarding claim 9, Amano discloses the invention substantially as claimed. However, Amano does not disclose the separator oscillates with frequency ranging from about 10 Hz to about 10,000 Hz. Bair et al teaches the separator oscillates with frequency ranging from about 8,000-15,000 rpms, which is about 133 Hz-250 Hz (col. 13 lines 8-14). It would have been obvious to one having ordinary skill in the art at the same time the invention was made to modify Amano by adding the separator oscillating with a frequency ranging from about 8,000-15,000 rpms, which is about 133 Hz-250 Hz as taught by Bair et al in order to produce an optimal rate of oscillation for the cutting instrument.

Claims 10-12 are rejected under 35 U.S.C 103 (a) as being unpatentable over Amano (6.506.198) in view of Bair et al (6,126,668) and further in view of Tanne (4,665,914).

Regarding claims 10-12, Amano in view of Bair et al disclose a device having all limitations substantially as claimed. However, the combination fails to disclose the separator



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oscillation provided by electromagnetic forces or piezoelectric forces on the separator. Tanne (see col. 5 lines35-68) teaches the separator oscillation provided by electromagnetic forces or piezoelectric forces on the separator.

It would have been obvious to one having ordinary skill in the art at the same time the invention was made to modify the combination of Amano in view of Bair et al by adding the separator oscillation provided by electromagnetic forces or piezoelectric forces on the separator because this would have been merely an alternate and analogous way to produce the oscillation in the modified Amano device.

Claim 13 is rejected under 35 U.S.C 103 (a) as being unpatentable over Amano (6,506,198) in view of Ruiz et al (5,133,726).

Regarding claim13, Amano discloses the invention substantially as claimed. However, Amano does not disclose the device includes rotating gears. Ruiz et al teaches a corneal shaping device that oscillates by the use of rotating gears (figures 1, 10). It would have been obvious to one having ordinary skill in the art at the same time the invention was made to modify Amano by adding the oscillation by rotating gears as taught by Ruiz because this would have been merely an alternate and analogous way to produce the oscillation in the modified Amano device.

Allowable Subject Matter

3. Claims 16-23 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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4. The following is a statement of reasons for the indication of allowable subject matter:

None of the prior art of record disclose or suggest wherein a rotating drum and where the separated epithelial disk is rolled on the drum.

Response to Arguments

Applicant's arguments filed 06/02/2003 have been fully considered but they are not persuasive.

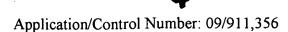
As the examiner has pointed out above, the device of Amano shows in figures 1, 2, a mechanical device (1) includes a separator (21a), wherein the device can preserve the separated epithelial layer without rupturing the disk and without substantial epithelial cell loss.

Furthermore, it is noted that a recitation of the intended use (wherein the device is suitable for separating the epithelial layer from the cornea stroma) of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. In addition, the device of Amano inherently is capable of performing the same function as the applicant's device to separate the epithelial layer from the corneal. If the prior art structure is capable of performing the intended use, then it meets the claim. See In Casey, 152 USPQ 235 (CCPA 1967) and In re Otto, 136 USPQ 458, 459 (CCPA 1963). Therefore, the claimed invention is not patentable over Amano device.

Conclusion

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO



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MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Victor X Nguyen whose telephone number is (703) 305-4898.

The examiner can normally be reached on M-F (8-4.30 P.M).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Milano can be reached on (703) 308-2496. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0858.

Victor X Nguyen Examiner Art Unit 3731

Vn W August 23, 2003

Julian W. Woo Primary Examine?